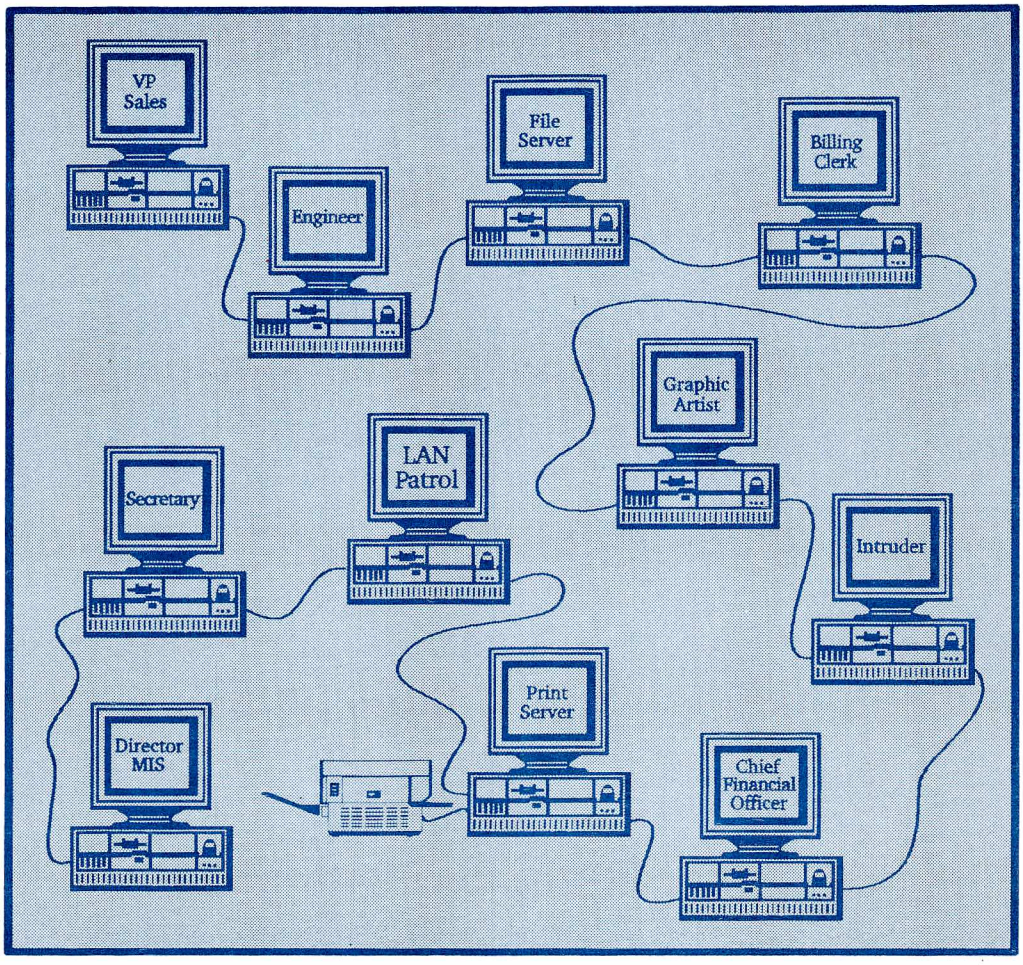
Legend Software Inc.

For Ethernet, StarLAN, LattisNet and StarLAN 10 Local Area Networks

LAN Patrol®

extra–high performance network analyzer



LAN Patrol®

Disks:

- ■ 5¼"
- □ 3½"

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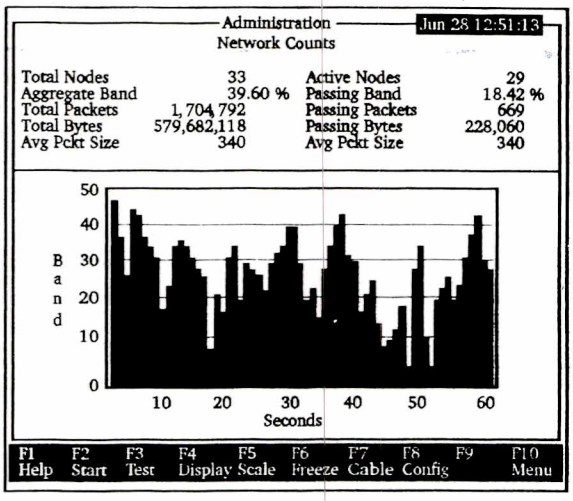
LAN Patrol®

LAN Patrol is a full-featured network analyzer that provides essential information for effective fault and performance management. It allows you to easily monitor user activity, find traffic overloads, plan for growth, test cable, uncover intruders, balance network services and much more. LAN Patrol uses state-of-the-art data collection techniques to monitor all activity on your network, giving you an accurate picture of how your LAN is performing. Up to 1024 stations can be monitored for as long as 30 days.

Features:

- Powerful network analysis capabilities which don't require knowledge of higher-level protocols.
- A rich selection of displays that show global network activity, individual station usage, traffic histories and more.
- Effectively isolates faulty hardware.
- Fully compatible with all network software: NetWare, 3+Open, VINES, TCP/IP, OSI, etc.
- Built-in report editor creates outstanding management reports.
- Supports operation in a non-dedicated PC, requiring just 15K of memory.
- Easy-to-learn menu driven interface, with on-line help.



The Administration display shows activity in real-time.

System Requirements:

Computer: IBM/PC/XT/AT, PS/2 Model 30 or compatible. LAN Patrol requires 512K memory and one double-sided disk drive or hard drive.

Operating System: PC DOS, MS-DOS version 3.1 or greater.

Display: Color or Monochrome text. Color display allows color-coding of traffic information.

Network Interface Card: Ethernet - 3Com EtherLink or EtherLink II, AST EtherNode, AT&T EN100, Black Box Ethernet, D-Link DE-100, DSC NEX/Link 8, ICE ICEcard-Ie, Interlan NI-5210, Novell NE1000 or NE2000, Pure Data PDT8023, or Western Digital EtherCard+; **StarLAN** - AT&T StarLAN NAU, Black Box StarLAN, Interlan NI-5210S, or Western Digital StarCard+; **LattisNet** - Black Box UTP, Interlan NI-5210UTP or Western Digital EtherCard+TP; **StarLAN 10** - AT&T StarLAN 10 NAU.

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LAN Patrol®

Ordering Information

United States

LAN Patrol is currently available for $495. For more information see your network dealer or contact us directly.

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Edison, NJ 08820
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Canada

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(514) 686-0232
FAX: (514) 686-0239

Europe

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2A Vulcan House
Calleva Industrial Park
Aldermaston
Berkshire, England RG7 4QW
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Technical Specifications

Requirements

Computer	IBM PC/XT/AT, PS/2 or compatible
Operating System	PC-DOS, MS-DOS 3.1 or greater
Memory	512KB (640KB recommended)
Disk Drive	One 3 1/2" or 5 1/4" disk drive
Hard Drive	Optional
Display	Color or monochrome text

Network Interface Card

Ethernet	3Com EtherLink (3C501) 3Com EtherLink II (3C503) AST EtherNode AT&T EN100 BICC 4410-2 Black Box 5210 D-Link DE-100 DSC NEX/Link-8 Gateway Ethernet/AT ICE ICEcard-Ie Interlan NI-5210 Novell NE1000 Novell NE2000 PureData PDT8023 Tiara LanCard E Western Digital EtherCard+
StarLAN	AT&T StarLAN NAU Black Box StarLAN Interlan NI-5210S Western Digital StarCard+
LattisNet	Black Box UTP Interlan NI-5210UTP Western Digital EtherCard+TP
StarLAN 10	AT&T StarLAN 10 NAU

LAN Compatibility

Hardware	Compatible with Ethernet, StarLAN, LattisNet, and StarLAN 10 networks
Software	Compatible with all network software including Novell NetWare, 3Com 3+Open, Banyan VINES, AT&T StarGROUP, TCP/IP, OSI, etc

Operation

System Performance

LAN Patrol can monitor activity at rates of up to 10,000 packets per second. This level of performance is achieved by directly programming a standard network interface card using advanced data collection techniques. LAN Patrol's high performance allows effective background operation in a non-dedicated PC.

In addition to high performance monitoring, LAN Patrol is capable of maintaining statistics for up to 1024 stations, and allows long term monitoring sessions of up to 30 days at a time. These unique features provide network managers with powerful capabilities not found in other management packages.

Ease of Use

Using LAN Patrol doesn't involve the steep learning curve of other network analysis tools. LAN Patrol's easy to interpret information doesn't require knowledge of complex higher level protocol layers. The menu driven interface and on-line help system can be mastered in one session.

Installation

LAN Patrol runs on a single PC and requires no special hardware. You simply install a standard network interface card, then copy the software onto a floppy or hard disk. After running the configuration program LAN Patrol is operational.

Remote Monitoring

LAN Patrol can be combined with remote communications software, allowing network management activities to be performed from remote locations.

LAN Patrol®

High performance
network analysis software

Introduction

Questions

The day-to-day management of a Local Area Network raises some difficult questions:

- Are network services being used to their full potential?
- Is performance limited by the available bandwidth?
- Are hardware failures causing intermittent problems?
- Is heavy activity affecting response time?

LAN Patrol answers these and other questions, giving network managers and integrators the information they need to keep their networks running at peak efficiency.

Principles of Operation

LAN Patrol, a network analyzer, operates under the same principles as a protocol analyzer. LAN Patrol passively monitors activity, capturing data as it is sent across the network. By analyzing information contained in each packet of data, a comprehensive view of network activity is built.

The major advantages of LAN Patrol over a protocol analyzer are:

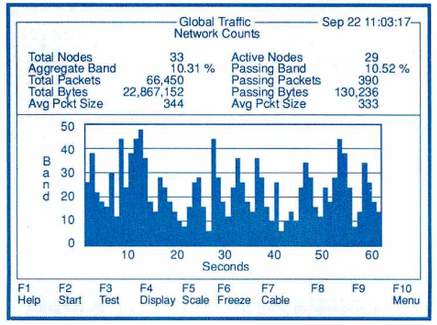
- LAN Patrol focuses on what network managers need most: network activity information, not hard to interpret higher level protocols.
- User data is not displayed, so security isn't compromised.
- LAN Patrol works with a standard Network Interface Card. Expensive proprietary hardware is not required.

Features

Global Traffic

LAN Patrol's combination of *Global Traffic* displays provide a detailed view of your network

- Monitor activity.
- Test network cable for faults.
- Isolate traffic on multi-vendor networks with type field filters.
- Analyze packet length distributions.

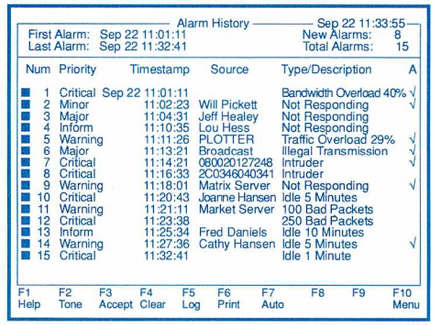


Check the status of your network.

Event Alarms

LAN Patrol's *Alarm History* display lets you find, even prevent, problems on your network.

- Pinpoint traffic overloads.
- Isolate faulty network cards.
- Locate locked up stations.
- Detect unauthorized access.

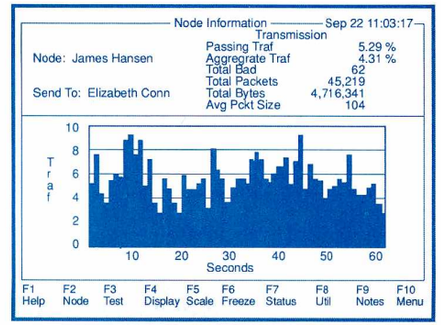

Alarm History
Sep 22 11:33:55
First Alarm: Sep 22 11:01:11
Last Alarm: Sep 22 11:32:41
New Alarms: 8
Total Alarms: 15
Num Priority Timestamp Source Type/Description A
1 Critical Sep 22 11:01:11 Bandwidth Overload 40% √
2 Minor 11:02:23 Will Pickett Not Responding √
3 Major 11:04:31 Jeff Healey Not Responding
4 Inform 11:10:35 Lou Hess Not Responding
5 Warning 11:11:26 PLOTTER Traffic Overload 29% √
6 Major 11:13:21 Broadcast Illegal Transmission √
7 Critical 11:14:21 080020127248 Intruder √
8 Critical 11:16:33 2C0346040341 Intruder
9 Warning 11:18:01 Matrix Server Not Responding √
10 Critical 11:20:43 Joanne Hansen Idle 5 Minutes
11 Warning 11:21:11 Market Server 100 Bad Packets
12 Critical 11:23:38 250 Bad Packets
13 Inform 11:25:34 Fred Daniels Idle 10 Minutes
14 Warning 11:27:36 Cathy Hansen Idle 5 Minutes √
15 Critical 11:32:41 Idle 1 Minute
F1 Help F2 Tone F3 Accept F4 Clear F5 Log F6 Print F7 Auto F8 F9 F10 Menu

Quickly resolve problems with event alarms.

Individual Station Activity

The *Node Information* display lets you zoom in on individual stations.

- Check usage patterns.
- Test connectivity.
- Monitor communication links.
- Analyze each stations impact on the network.

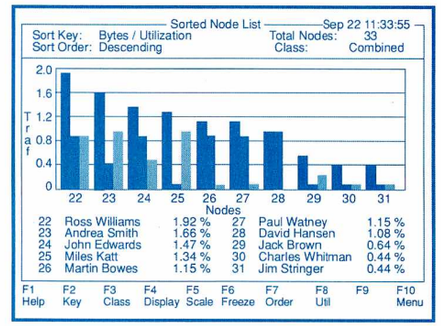

Node Information
Sep 22 11:03:17
Node: James Hansen
Send To: Elizabeth Conn
Transmission
Passing Traf 5.29 %
Aggregate Traf 4.31 %
Total Bad 62
Total Packets 45,219
Total Bytes 4,716,341
Avg Pckt Size 104
Traf
Seconds
F1 Help F2 Node F3 Test F4 Display F5 Scale F6 Freeze F7 Status F8 Util F9 Notes F10 Menu

Monitor user activity.

Sorted Activity Lists

With the *Sorted Node List* display you can list stations in a variety of orders.

- Balance network services.
- See who's currently using the network.
- Determine which stations generate the most activity.

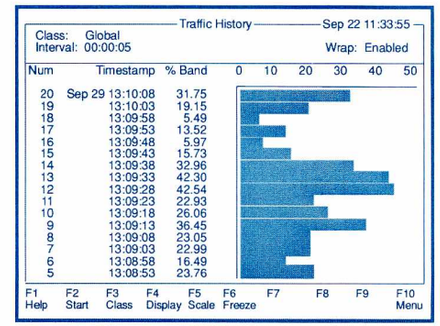

Sorted Node List
Sep 22 11:33:55
Sort Key: Bytes / Utilization
Sort Order: Descending
Total Nodes: 33
Class: Combined
Traf
Nodes
22 Ross Williams 1.92 %
23 Andrea Smith 1.66 %
24 John Edwards 1.47 %
25 Miles Katt 1.34 %
26 Martin Bowes 1.15 %
27 Paul Watney 1.15 %
28 David Hansen 1.08 %
29 Jack Brown 0.64 %
30 Charles Whitman 0.44 %
31 Jim Stringer 0.44 %
F1 Help F2 Key F3 Class F4 Display F5 Scale F6 Freeze F7 Order F8 Util F9 F10 Menu

See who's generating the most traffic.

Traffic History

The *Traffic History* display provides you with a detailed activity histogram for individual stations and the network as a whole.

- Determine growth requirements.
- Plan network maintenance.
- Profile server activity.
- Benchmark applications.



Isolate traffic overloads.

Network Management Reports

LAN Patrol's powerful report generator lets you design fully customized network activity reports. Reports can be used to:

- Document your management activities.
- Justify the need for system upgrades.
- Build a database of activity information.

These reports can be sent to a printer or saved as an ASCII file to disk. Spreadsheet, database, and desktop publishing programs can import these reports for further analysis and formatting.